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20. *Rhizogonium spiniforme*, var. *elatum*?—Woods, Oahu.
21. *Rhacopilum tomentosum*, *Brid*.—Woods, Oahu.
22. *Rhacopilum tomentosum*, var.? an species nova.—Woods, Kona, Hawaii.
23. *Mniadelphus paradoxus*, *C. Müll.*.—Oahu.
24. *Meteorium trichophorum*, *Mont*.—Woods, Oahu.
25. *Meteorium illicebrum*, *Nees*.—Hawaii.
26. *Neckera dendroides*, *Hook.*.—Oahu.
27. *Hypnum plumosum*, *Linn.*.—Hualui, Kauai.
28. *Hypnum gracilisetum*, *Hoh. & R.*.—Oahu.
29. *Hypnum pungens*, *Hedw.*.—Kona, Huanai, Oahu.
30. *Hypnum Bonplandii*, *Hook.*?—Oahu.
31. *Hypnum Draytoni*, *Sulliv.*
32. *Hypnum Wilkesianum*, *Sulliv.*.—Oahu.
33. *Hypnum paucipilum* (*n. sp.*)—Dioicum *minusculum* delicatulum nitidum; caule repente pinnato, foliis oblongo-lanceolatis longe filiformi-attenuatis decurvo-falcatis tenuissimis, a medio ad apicem serratis basi brevissime bicostellatis, cellulis angustissimis, alaribus 2-3 utrinque vesiculiformibus, perichaetialibus erectis, capsula oblonga annulata horizontali, pedicello gracilimente, operculo longe rostrato, calyptra cuculliformi pilis paucis longis conspersa.—Oahu.
34. *Hypnum Pickeringii*, *Sulliv.*.—Oahu.
35. *Hypnum molliculum*, *Sulliv.*.—Oahu.
36. *Hypnum apertum*, *Sulliv.*
37. *Thuidium cymbifolium*, *D. & Mlk.*.—Woods, Kona, Hawaii.
38. *Thuidium delicatulum*, *Hedw.*

§ 78. *New Publications.*—1. *Flora Fossile dell' Etna*, per Francesco Tornabene, Casinese Professore di Botanica alla Regia Università di Catania, ed ivi Direttore del R. Orto Botanico. Catania, 1859. Small quarto, pp. 147, with 10 lithographic plates. Presented to the Club by Dr. C. H. F. Peters, director of the Litchfield Observatory of Hamilton College (and, by the way, the original copy presented to Dr. Peters by the author). This is an account, principally in Italian, of the fossil flora of Mt. Etna, the technical descriptions of the plants and of the plates being in Latin; with an introduction setting forth the general scope of the work, a preliminary chapter on the origin of the rocks and earths, and another interesting chapter on the botanical stations and distribution of plants on the mountain; and on the process of formation of the fossil flora. A general abstract of these introductory chapters would be very instructive, if space would permit.

The author accompanies his descriptions of the fossil plants with observations upon the kindred living species, and seems to have neglected no source of information regarding his subject, drawing largely upon the observations of foreign travelers and geologists.

Naturally the fossil flora on the sides of a still active volcano differs materially from that of old extinct terrains; as the deposits of lava, stones and ashes on its slopes suffer such varied disintegrations, and allow such multiplied effects to be produced by the

percolations of water. Consequently, much of the fossil flora has both near relatives and living representatives.

Among the fossil plants enumerated are *Pistacia Terebinthus*, L., and var. *ovalifolia*, Tornabene, *P. lentiscus*, L., *P. Sicula*, Tornabene, *P. Bossoni*, Tornabene, *Prunus spinosa*, Duhamel, *Rubus Dalmaticus*, Tratt (*R. fruticosus*, var. *Dalmaticus*, De Candolle et auctores alteri), *R. tomentosus*, Willd., *Pyrus communis*, L., *Myrtus communis*, L., and var. *Italica*, L., var. *Romana*, L., *M. latifolia*, Tornabene; *Vitex agnus-castus*, L., and var. *latifolia*, Tornabene; *Laurus nobilis*, L.

2. *The Circulation of Sap in Plants*, by W. S. Clark, Pres. Mass. Agric. Coll., Boston, 1874. This lecture was noticed in our Dec. No. It is now published in pamphlet form, with fuller details.

3. *The Flora of Chicago and Vicinity. Supplementary.* H. H. Babcock, reprinted from the *Lens*; about fifty additional species or varieties are here added, the most interesting of which are the willows, particularly *S. cordata*, var. *glaucophylla*, and *S. adenophylla*, Hook.

4. Schedule of Prizes offered by the Mass. Hort. Soc., for the year 1874, Boston.

5. *The Eclectic Ruralist*, Vol. II., No. 1. Rochester, February, 1874.

6. Mr. George C. Woolson, 245, Broadway, N. Y., has had printed for his own convenience an index to Torrey and Gray's Flora, Vol. II., which he will send to any one who may desire it, on receipt of a stamped envelope.

§ 79. Additions to the Bryology of the United States, by Chas. Mohr.

NO. II.

Description of two new species of mosses from the Southern United States, by Prof. Dr. KARL MUELLER, Halle.

Bartramia (*Philonotis*) **Mohriana**, C. Müller, *n. sp.* Dioica? *caulis robustiusculus* ubique densifolius, inferne fusco-radiculosus, ramulis, crassiusculis inequalibus plerumque brevibus et strictis nonnullis coronatus, breviusculus; *folia caulina undique inserta, madore et siccitate patenti-patula strictissima*, sordide lutescentia, *latiuscula, perfecte lanceolata* longe acuminata aristatula, longitudinaliter indistincte plicata, basi sæpius cavernosula, igitur irregulariter concava, margine angustissime revoluta, apice dense serrulato-denticulata inferne ob papillas prominentes nodulosa, nervo profunde canaliculato in aristam excedente furcata, *e cellulis angustis elongatis linearibus pellucidis laxis reticulata igitur tenuiter membranacea et flaccidula, valde punctato-papillosa*; perich. caulinis similia sed ba si

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